

## ABSTRACT

An exhaust gas purifying system reliably detects an amount of accumulated particulates, lengthens forced regeneration intervals, and improves fuel efficiency. The exhaust gas purifying system comprises: a particulate filter 22 disposed in an exhaust system of an internal combustion engine 2 and collecting particulates from exhaust gas, and an NO<sub>2</sub> generating unit 21 upstream of or in the particulate filter 22; a discharged particulate amount calculating unit A1 calculates an amount M<sub>e</sub> of discharged particulates on the basis of an excess air ratio  $\lambda$ ; a burnt particulate amount calculating unit A2 calculates an amount M<sub>b</sub> of burnt particulates on the basis of the temperature of exhaust gas in front of the particulate filter or the temperature of the particulate filter; and a particulate accumulation amount calculating unit calculates an amount M<sub>a</sub> of accumulated particulates on the basis of the amount M<sub>e</sub> of discharged particulates or the amount M<sub>b</sub> of burnt particulates.